

# Notice of Allowability

Application No.

10/608,831

Examiner

Sam Rizk

Applicant(s)

BICKERSTAFF, MARK ANDREW

Art Unit

2133

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/28/2006.
2. ☒ The allowed claim(s) is/are 1-15.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).


\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
GUY LAMARRE  
PRIMARY EXAMINER

### **DETAILED ACTION**

- Response to the applicant's amendment dated 8/18/2006
- Amended claims 1-15 have been submitted for examination
- Amended claims 1-15 have been allowed

### ***Claim Rejections - 35 USC § 112***

1. In regard to claim 6 rejection under section 35 USC § 112 (2<sup>nd</sup>), on further examination and in view of the applicant's cited examples in US patent no. 6,512,854 and 7,068,895 and argument in pages 13-14, filed on 8/18/2006. The rejection of claim 6 35 USC § 112 (2<sup>nd</sup>) has been withdrawn.

### ***Specification Objections***

2. In view of the applicant amended specifications filed on 8/18/2006; all objections to the specification are withdrawn.

### ***Response to Arguments***

3. Applicant's arguments see pages 8-13, filed on 8/18/2006, with respect to claims 1-15 have been fully considered and are persuasive. The rejection of claims 1-15 under section 35 USC § 102 (a) has been withdrawn.

### **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance:

5. The prior Art of record and in particular Bickerstaff02 (Cited in the office action filed on 5/15/2006 do not teach, suggest, or otherwise render obvious the limitations as cited by the applicant in claim1:
  - (Currently Amended) A decoder comprising:

Art Unit: 2133

- an SISO device that operates as a PCCC decoder in a first mode of operation, and as an SCCC decoder in a second mode of operation where the device operates as per at least one trellis using an in-place addressing technique to process information.

6. Claims 2-11 depends from claim 1.

7. In regard to claim 12, Bickerstaff02 do not teach, suggest, or otherwise render obvious the limitations as cited by the applicant in claim 12:

- (Currently Amended) A method of performing turbo decoding, the method comprising the step of:
- processing, in accordance with a turbo decoding algorithm, received information as per an N-state Radix-K trellis using an in-place addressing technique where N, K are integers equal to 1 or greater.

8. Claims 13 and 14 depend from claim 12.

9. Claim 15 has similar language as in claim 12.

### ***Conclusion***

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Art Unit: 2133

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sam Rizk whose telephone number is (571) 272-8191. The examiner can normally be reached on M-F 8-5.

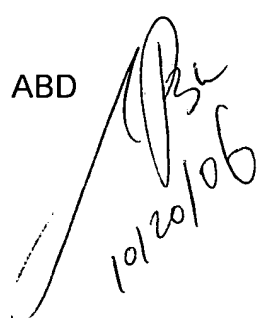
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on (571) 272-3819. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronics Business Center (EBC) at 866-217-9197 (toll-free)

Sam Rizk, MSEE, ABD

Examiner

ART UNIT 2133

  
10/20/06



**GUY LAMARRE**  
**PRIMARY EXAMINER**